

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P856185

Luminaire Tested: **FFX-CLB-70-750-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856185
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-750-U-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

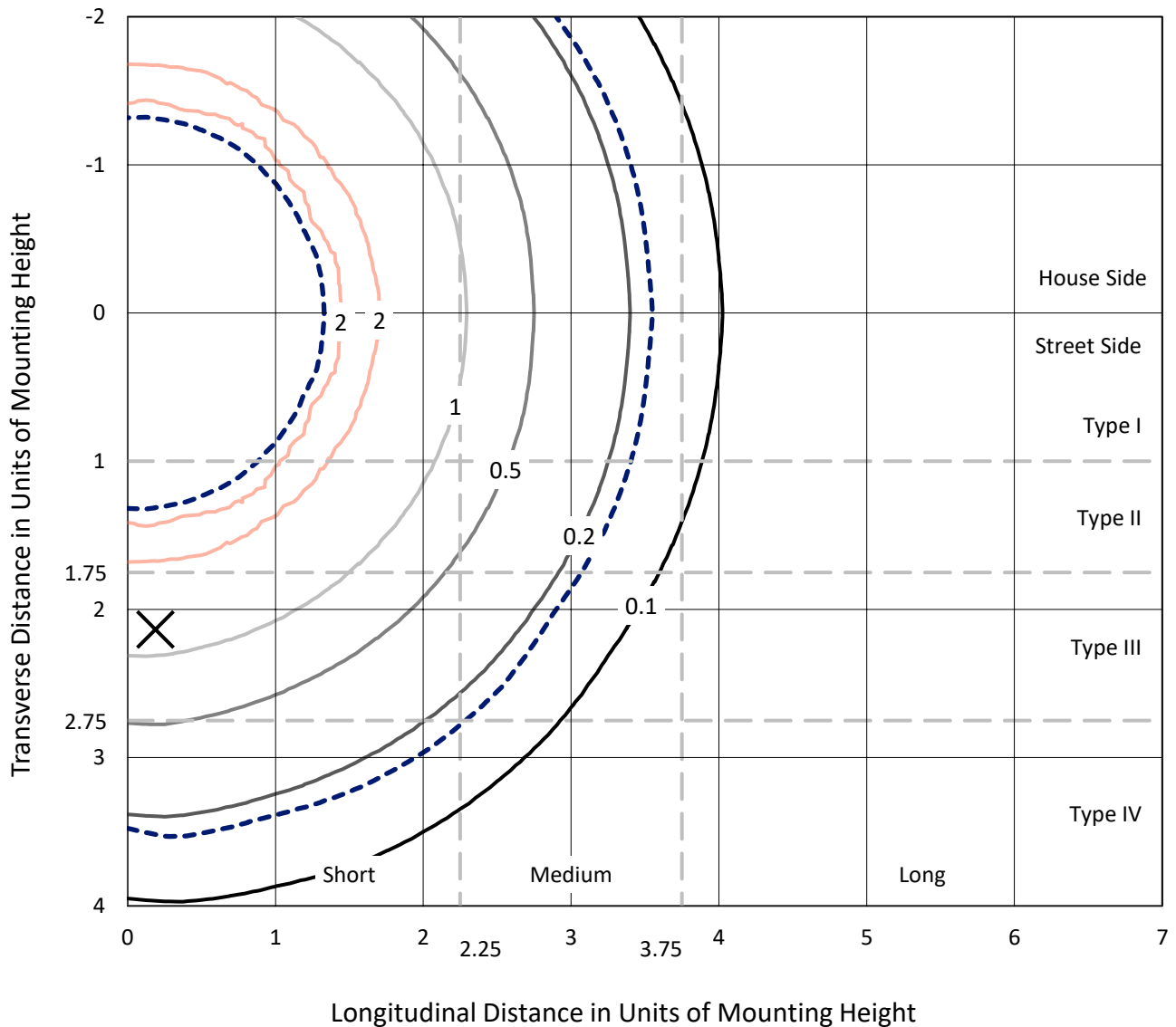
Lumens per Lamp: N/A
Luminaire Lumens: 10986.5 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U4 - G3

Input Watts (W): 70.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

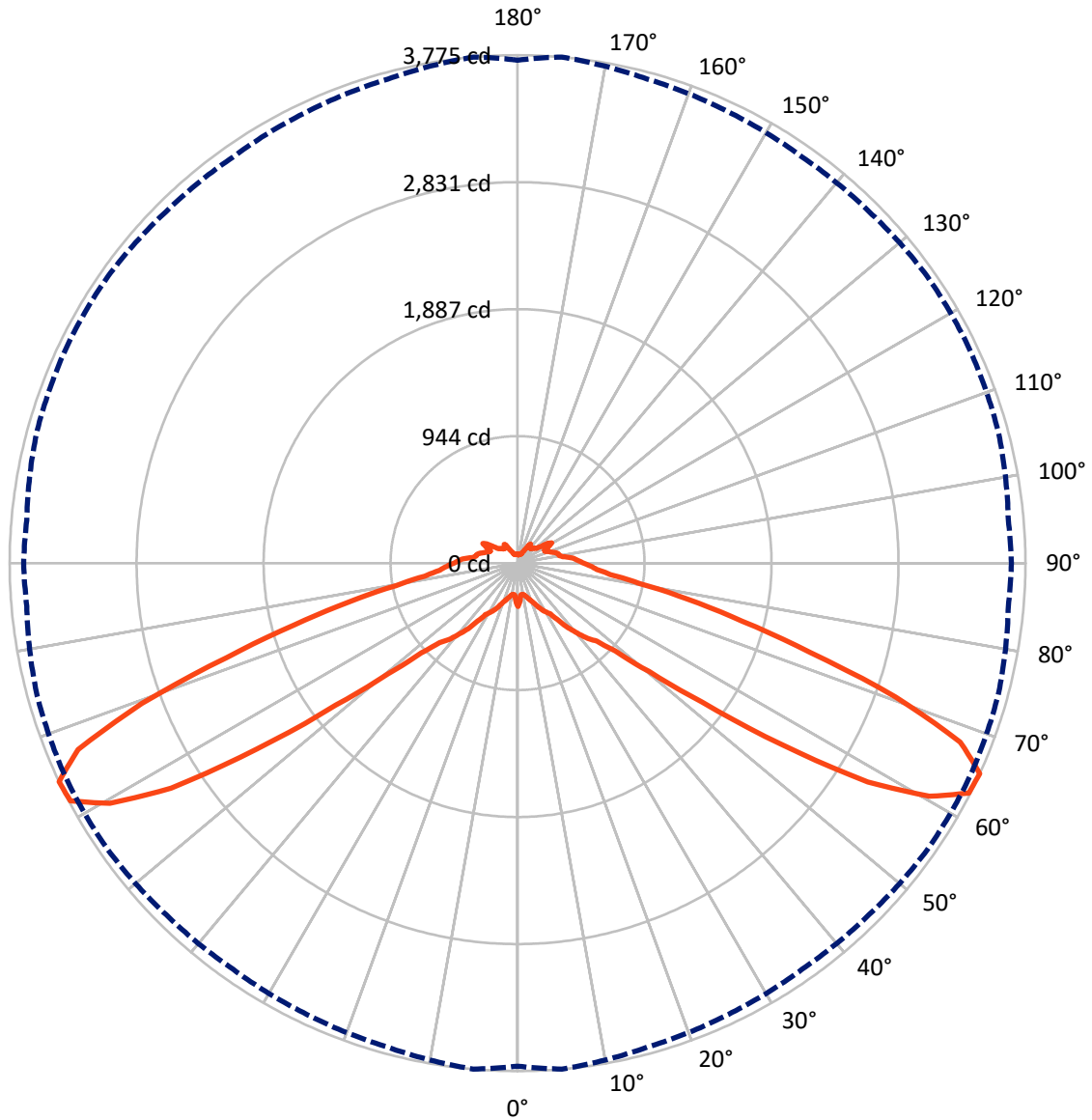
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

REPORT NUMBER: P856185
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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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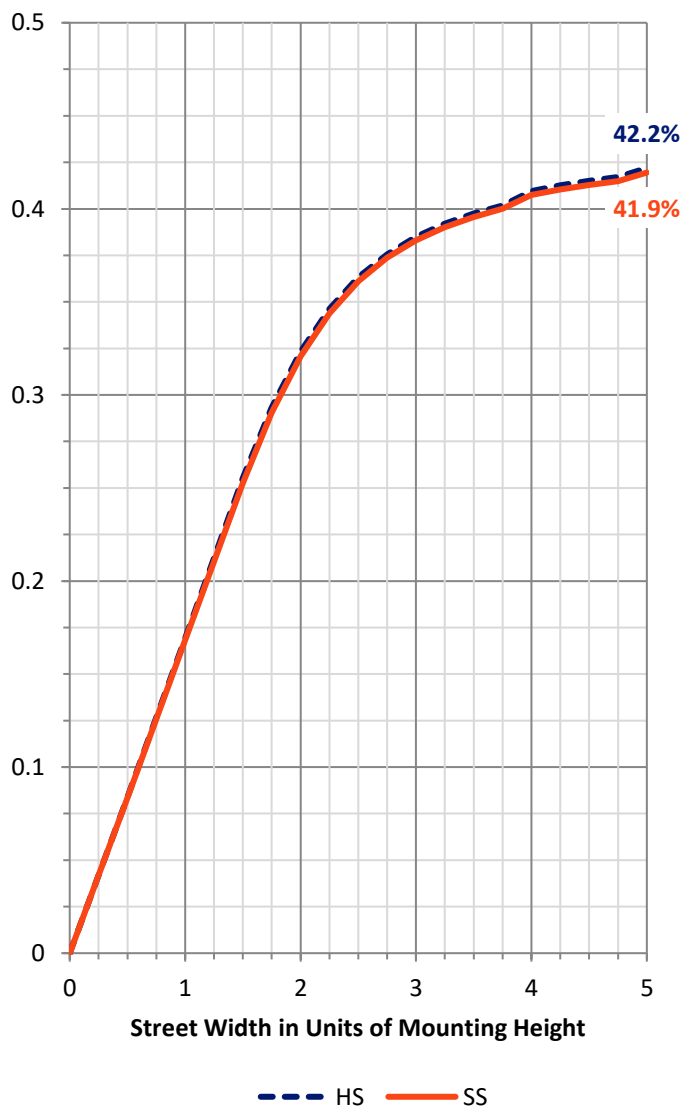
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4799.1	694.2	5493.3
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	4799.1	694.2	5493.3
	% Fixture	43.7	6.3	50.0
Total	Lumens	9598.2	1388.4	10986.5
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	0.2
10°-20°	77.1	0.7
20°-30°	167.2	1.5
30°-40°	338.7	3.1
40°-50°	682.9	6.2
50°-60°	2171.1	19.8
60°-70°	3501.3	31.9
70°-80°	1909.4	17.4
80°-90°	727.0	6.6
90°-100°	436.3	4.0
100°-110°	278.3	2.5
110°-120°	211.6	1.9
120°-130°	179.1	1.6
130°-140°	116.7	1.1
140°-150°	97.8	0.9
150°-160°	43.8	0.4
160°-170°	18.6	0.2
170°-180°	6.2	0.1
0°-90°	9598.2	87.4
0°-180°	10986.5	100.0

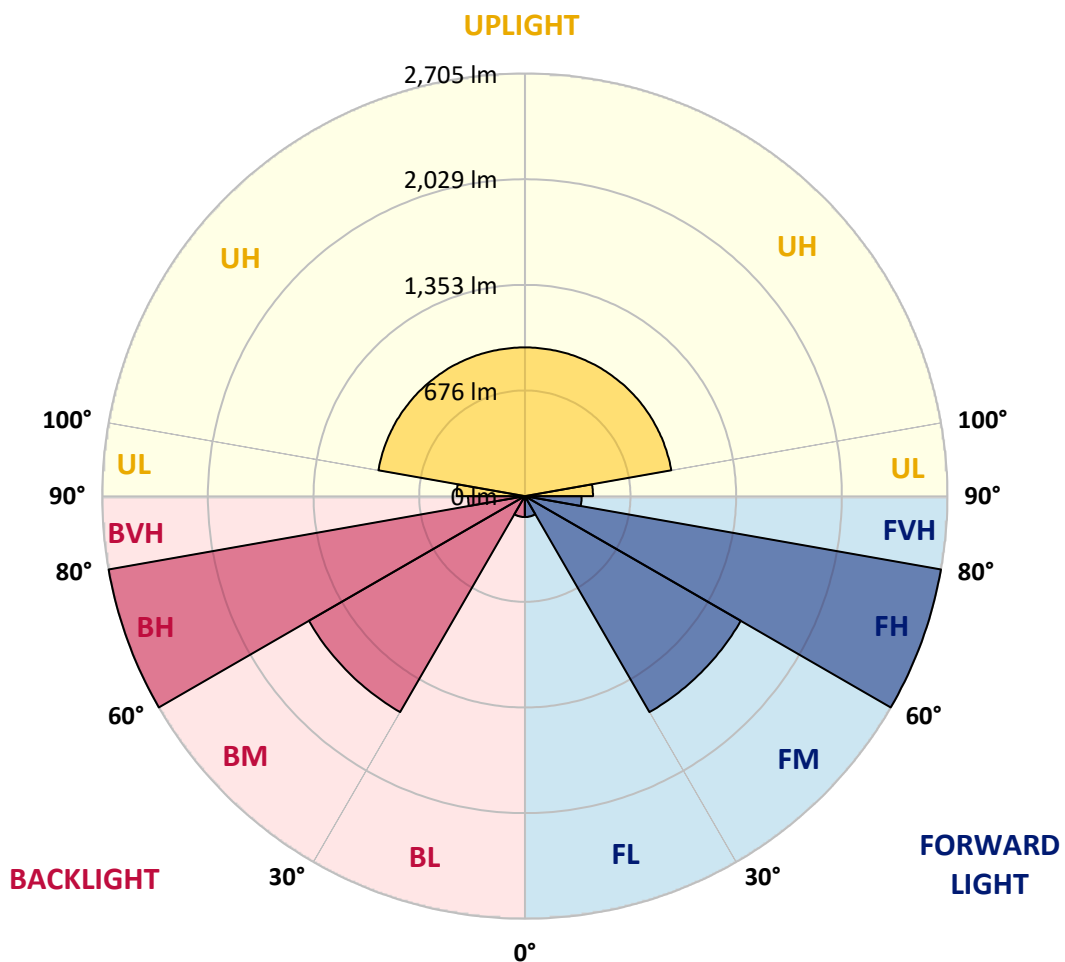


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.8	1.2			
FM	(30°-60°)	1596.4	14.5			
FH	(60°-80°)	2705.3	24.6			G2/5000
FVH	(80°-90°)	363.5	3.3			G3/500
BL	(0°-30°)	133.8	1.2	B1/500		
BM	(30°-60°)	1596.4	14.5	B2/2500		
BH	(60°-80°)	2705.3	24.6	B4/5000		G2/5000
BVH	(80°-90°)	363.5	3.3			G3/500
UL	(90°-100°)	436.3	4.0		U3/500	
UH	(100°-180°)	952.1	8.7		U4/1000	

BUG Rating: B4-U4-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4
2.5°	288.0	292.6	280.0	269.6	265.0	266.2	276.5	286.8	276.5	280.0	280.0
5°	238.7	239.8	239.8	237.5	240.9	234.1	226.0	226.0	234.1	243.2	243.2
7.5°	230.6	234.1	243.2	243.2	246.7	235.2	223.7	224.9	236.4	250.1	253.6
10°	237.5	237.5	235.2	237.5	245.5	244.4	231.8	226.0	234.1	247.8	252.4
12.5°	247.8	247.8	254.7	265.0	266.2	255.9	243.2	242.1	251.3	260.5	260.5
15°	262.7	263.9	267.3	266.2	269.6	266.2	262.7	265.0	270.8	270.8	270.8
17.5°	282.3	282.3	282.3	282.3	282.3	283.4	284.5	284.5	284.5	286.8	286.8
20°	304.1	304.1	302.9	301.8	301.8	302.9	304.1	304.1	304.1	306.3	306.3
22.5°	331.6	330.4	328.1	328.1	328.1	329.3	327.0	325.9	324.7	325.9	325.9
25°	363.7	363.7	361.4	358.0	358.0	356.8	353.4	352.2	351.1	353.4	352.2
27.5°	395.8	395.8	392.4	387.8	387.8	387.8	385.5	383.2	380.9	382.1	382.1
30°	425.7	423.4	422.2	418.8	417.6	418.8	416.5	416.5	411.9	410.8	413.1
32.5°	453.2	450.9	453.2	449.8	446.3	449.8	448.6	448.6	441.7	439.4	441.7
35°	528.9	523.2	527.8	519.8	515.2	516.3	518.6	523.2	516.3	512.9	514.0
37.5°	610.4	609.3	624.2	636.8	634.5	615.0	602.4	604.7	613.8	626.5	626.5
40°	686.1	683.8	687.3	682.7	682.7	680.4	679.2	685.0	666.6	662.0	658.6
42.5°	765.3	764.1	744.6	717.1	711.4	734.3	744.6	752.7	726.3	717.1	710.2
45°	843.3	827.3	823.8	814.6	805.5	820.4	819.2	825.0	812.3	811.2	805.5
47.5°	1007.4	977.6	967.2	968.4	948.9	964.9	971.8	990.2	963.8	964.9	963.8
50°	1303.4	1265.5	1282.8	1271.3	1250.6	1270.1	1269.0	1302.3	1258.7	1274.7	1267.8
52.5°	1765.8	1714.2	1724.5	1717.6	1697.0	1737.1	1746.3	1795.6	1711.9	1732.5	1726.8
55°	2434.7	2378.5	2401.4	2318.8	2297.0	2376.2	2406.0	2463.4	2352.1	2363.6	2357.8
57.5°	3072.6	3069.2	3108.2	3049.7	3030.2	3086.4	3058.9	3109.4	3049.7	3092.2	3078.4
60°	3507.5	3516.7	3555.7	3572.9	3538.5	3568.3	3501.8	3539.6	3521.3	3583.2	3577.5
62.5°	3733.5	3763.4	3740.4	3741.6	3703.7	3726.6	3714.0	3735.8	3731.2	3737.0	3731.2
65°	3738.1	3774.8	3724.3	3701.4	3685.3	3694.5	3716.3	3716.3	3702.5	3661.2	3670.4
67.5°	3493.7	3548.8	3492.6	3460.5	3469.6	3466.2	3481.1	3461.6	3453.6	3392.8	3393.9
70°	2892.5	2980.9	2898.2	2868.4	2892.5	2907.4	2906.3	2890.2	2877.6	2801.9	2823.7
72.5°	2196.1	2274.1	2200.6	2189.2	2212.1	2235.1	2215.6	2235.1	2214.4	2180.0	2190.3
75°	1657.9	1724.5	1724.5	1768.1	1775.0	1762.4	1708.4	1730.2	1744.0	1745.1	1755.5
77.5°	1219.6	1289.6	1326.4	1397.5	1394.0	1372.2	1306.8	1332.1	1358.5	1376.8	1389.5
80°	867.4	920.2	974.1	1024.6	1031.5	1013.1	973.0	987.9	1003.9	1016.6	1023.5
82.5°	672.4	696.5	686.1	680.4	689.6	716.0	725.1	734.3	711.4	696.5	702.2
85°	586.3	588.6	607.0	619.6	623.0	623.0	613.8	620.7	626.5	641.4	641.4
87.5°	534.7	537.0	582.9	595.5	600.1	594.3	582.9	587.5	592.0	601.2	601.2
90°	475.0	481.9	527.8	538.1	542.7	533.5	530.1	533.5	527.8	531.2	531.2
92.5°	441.7	441.7	463.5	458.9	457.8	458.9	460.1	463.5	457.8	455.5	455.5
95°	403.9	409.6	403.9	408.5	407.3	401.6	399.3	401.6	398.1	398.1	400.4
97.5°	338.5	339.6	329.3	332.7	332.7	328.1	322.4	324.7	321.3	323.6	324.7
100°	316.7	313.2	296.0	293.7	292.6	289.1	285.7	285.7	284.5	283.4	284.5
102.5°	309.8	309.8	286.8	282.3	280.0	274.2	269.6	269.6	269.6	269.6	270.8
105°	283.4	291.4	274.2	270.8	267.3	260.5	253.6	252.4	254.7	252.4	255.9
107.5°	257.0	263.9	254.7	254.7	251.3	244.4	239.8	238.7	239.8	237.5	239.8
110°	242.1	245.5	235.2	235.2	232.9	227.2	226.0	224.9	224.9	221.4	223.7



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 CATALOG NUMBER: FFX-CLB-70-750-U-FR-T5-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	223.7	223.7	215.7	213.4	213.4	210.0	208.8	207.7	207.7	207.7	208.8
115°	222.6	221.4	208.8	200.8	199.6	198.5	199.6	198.5	198.5	197.3	197.3
117.5°	271.9	260.5	218.0	198.5	198.5	199.6	204.2	200.8	192.8	192.8	191.6
120°	293.7	296.0	251.3	230.6	226.0	220.3	219.1	216.9	208.8	207.7	212.3
122.5°	259.3	270.8	243.2	235.2	230.6	223.7	219.1	218.0	218.0	212.3	220.3
125°	201.9	212.3	198.5	197.3	196.2	197.3	195.1	195.1	197.3	193.9	195.1
127.5°	173.3	177.8	172.1	172.1	171.0	169.8	167.5	168.7	167.5	168.7	169.8
130°	166.4	169.8	164.1	161.8	161.8	162.9	162.9	162.9	159.5	157.2	158.3
132.5°	165.2	164.1	154.9	150.3	150.3	158.3	161.8	161.8	153.7	148.0	148.0
135°	149.2	150.3	149.2	143.4	144.6	146.9	150.3	151.5	143.4	140.0	141.1
137.5°	143.4	146.9	148.0	145.7	145.7	143.4	142.3	143.4	141.1	142.3	142.3
140°	143.4	144.6	148.0	150.3	148.0	145.7	145.7	145.7	146.9	150.3	152.6
142.5°	146.9	148.0	146.9	145.7	149.2	154.9	159.5	159.5	156.0	153.7	154.9
145°	168.7	172.1	172.1	168.7	171.0	168.7	168.7	166.4	166.4	166.4	167.5
147.5°	160.6	159.5	161.8	165.2	161.8	160.6	160.6	161.8	164.1	165.2	166.4
150°	126.2	122.8	125.1	131.9	130.8	130.8	130.8	131.9	133.1	133.1	134.2
152.5°	99.8	99.8	102.1	102.1	103.3	103.3	102.1	102.1	102.1	103.3	103.3
155°	89.5	88.3	90.6	94.1	91.8	91.8	91.8	91.8	91.8	91.8	92.9
157.5°	78.0	76.9	76.9	78.0	78.0	78.0	78.0	79.2	79.2	78.0	79.2
160°	71.1	71.1	70.0	70.0	70.0	71.1	72.3	72.3	71.1	70.0	70.0
162.5°	67.7	67.7	65.4	64.3	64.3	65.4	67.7	67.7	65.4	64.3	64.3
165°	67.7	66.5	63.1	60.8	60.8	63.1	66.5	66.5	63.1	60.8	60.8
167.5°	66.5	66.5	64.3	62.0	62.0	64.3	65.4	66.5	65.4	63.1	62.0
170°	64.3	64.3	65.4	65.4	64.3	64.3	64.3	64.3	65.4	65.4	65.4
172.5°	66.5	65.4	66.5	67.7	67.7	66.5	65.4	65.4	66.5	67.7	67.7
175°	67.7	67.7	66.5	66.5	66.5	65.4	65.4	65.4	66.5	67.7	66.5
177.5°	60.8	60.8	59.7	60.8	60.8	60.8	59.7	60.8	60.8	60.8	62.0
180°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

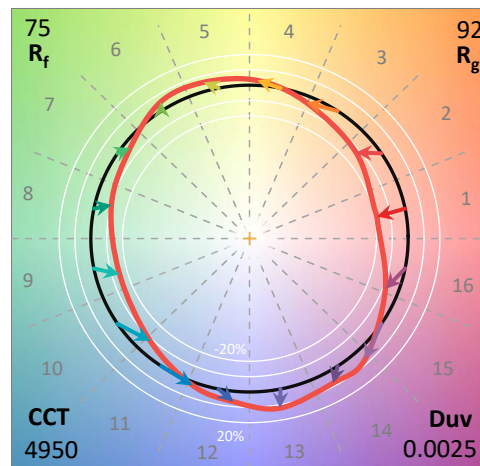
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-750-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 4950
 CIE u': 0.2102
 CIE v': 0.4882
 Duv: 0.0025
 CIE x: 0.3471
 CIE y: 0.3583
 CIE z: 0.2946
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 11.64963
 Rf: 74.8
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



Test Conditions

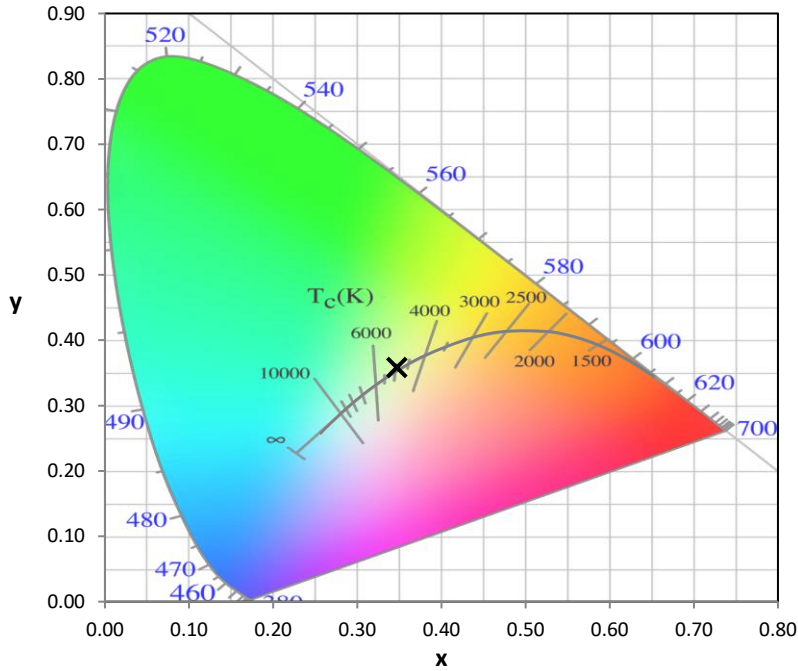
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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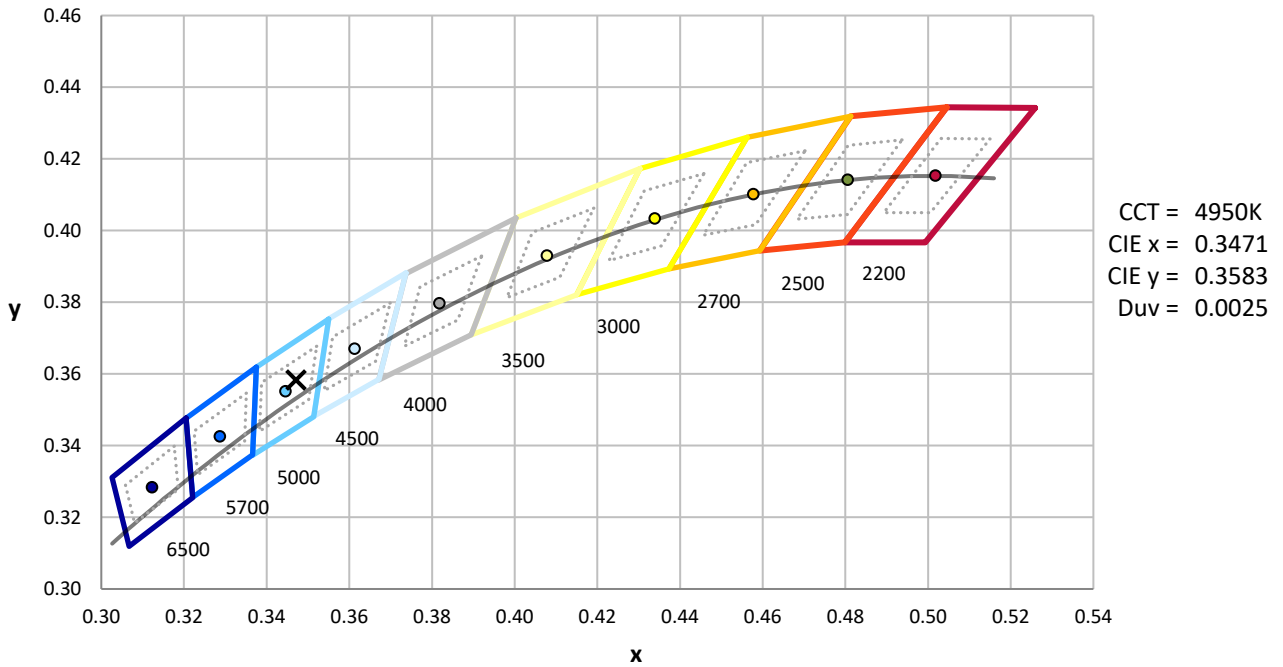
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



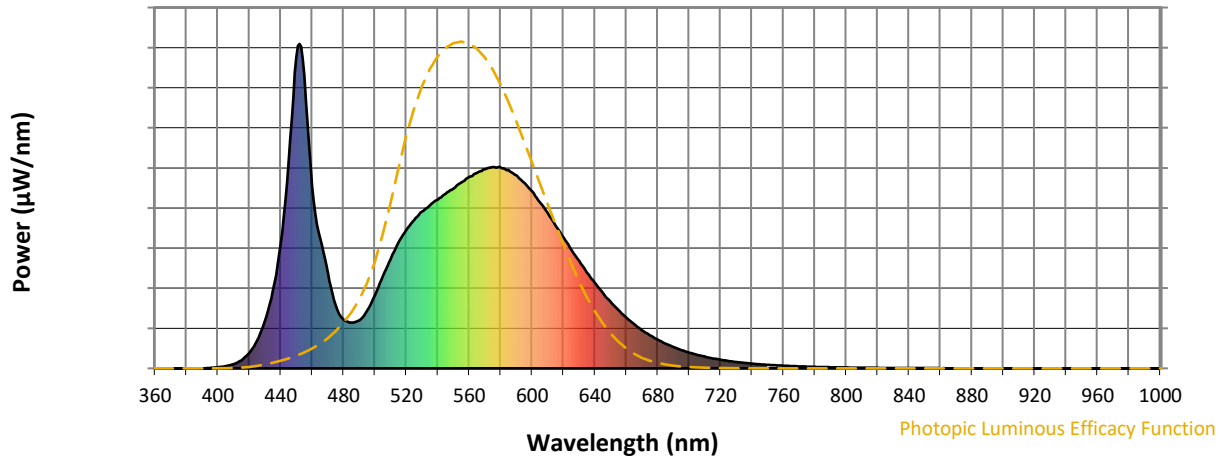
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

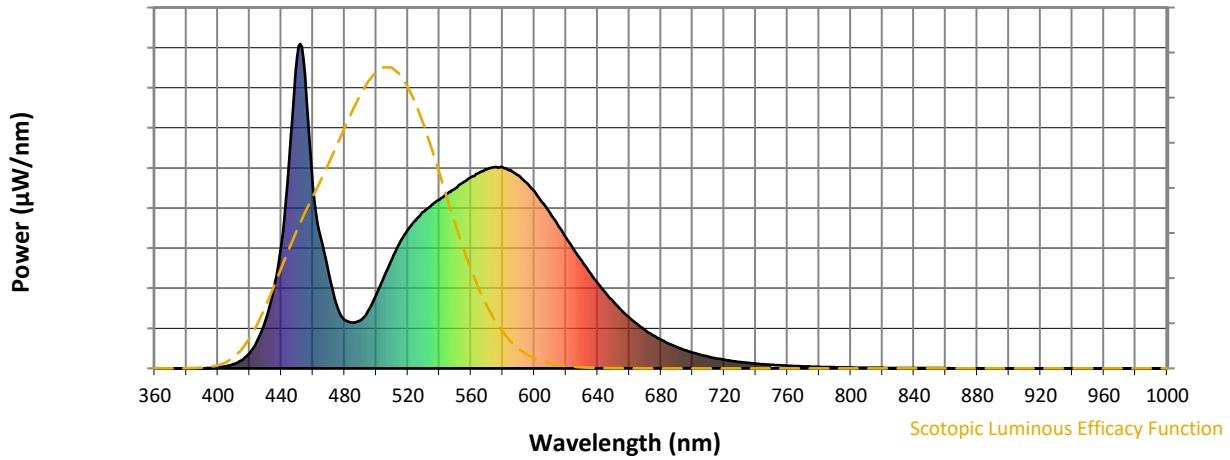


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.8

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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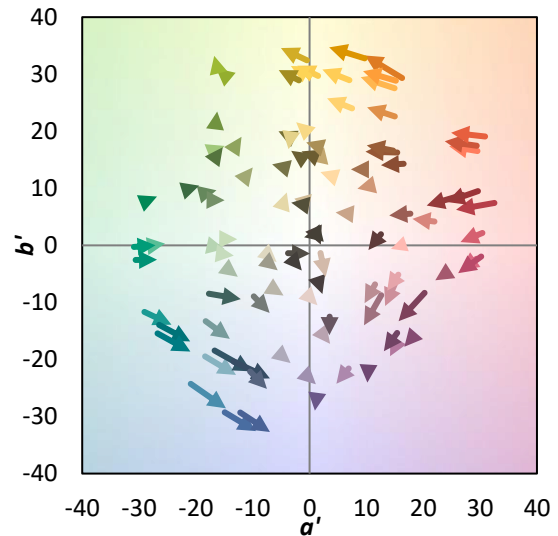
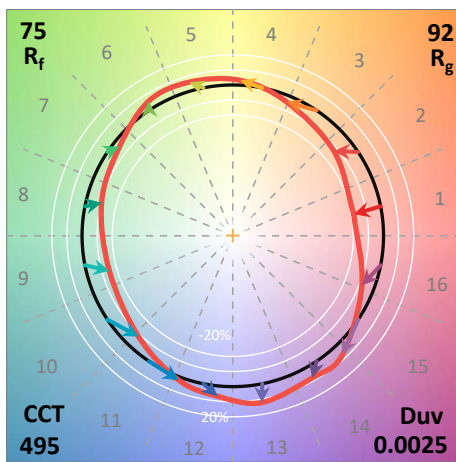
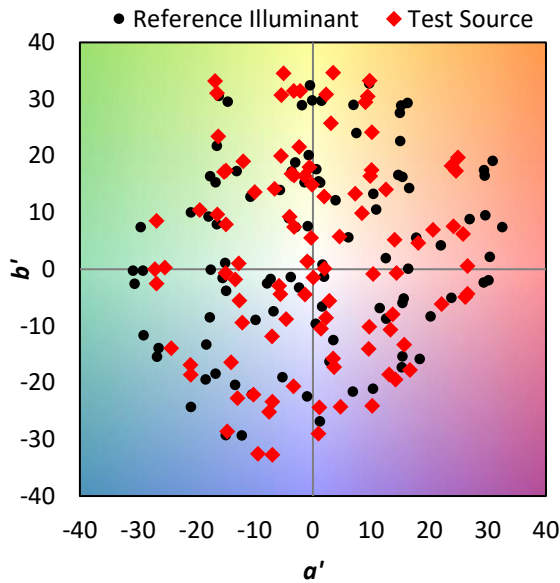
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Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_9 = -35.4$



Color Vector Graphics

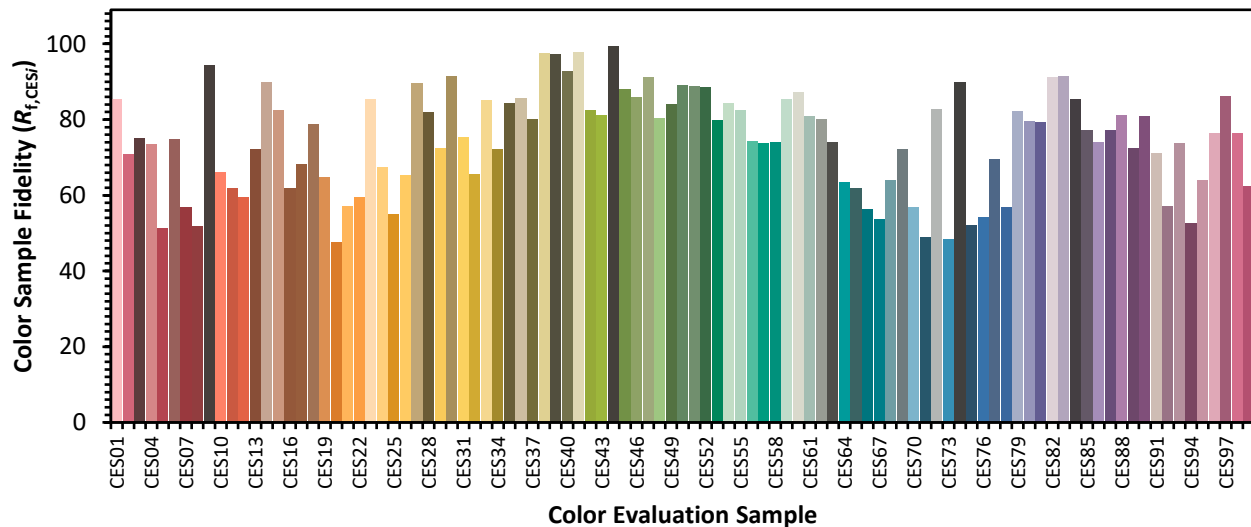


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Individual Sample Fidelity Index ($R_{f,i}$)

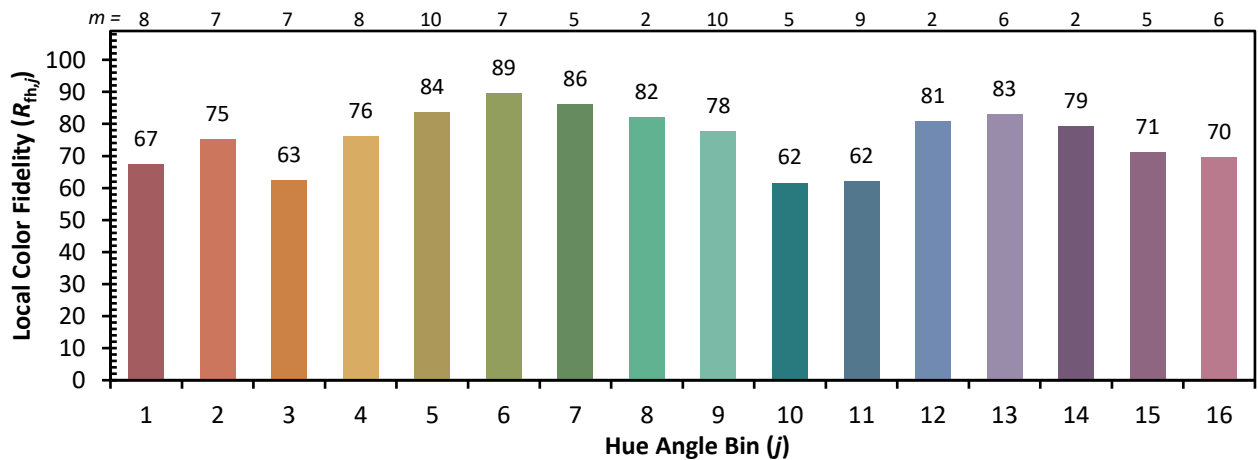
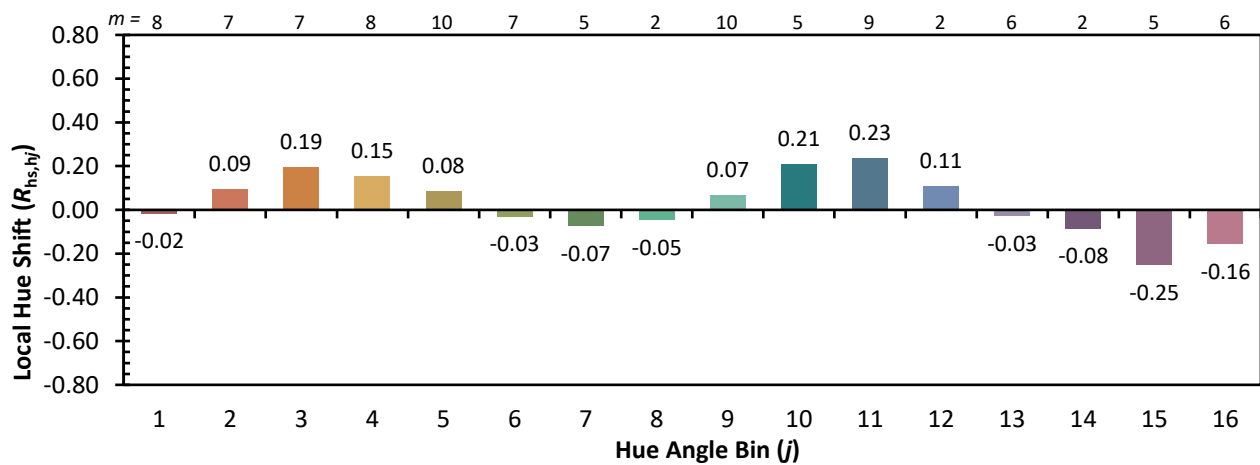
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CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



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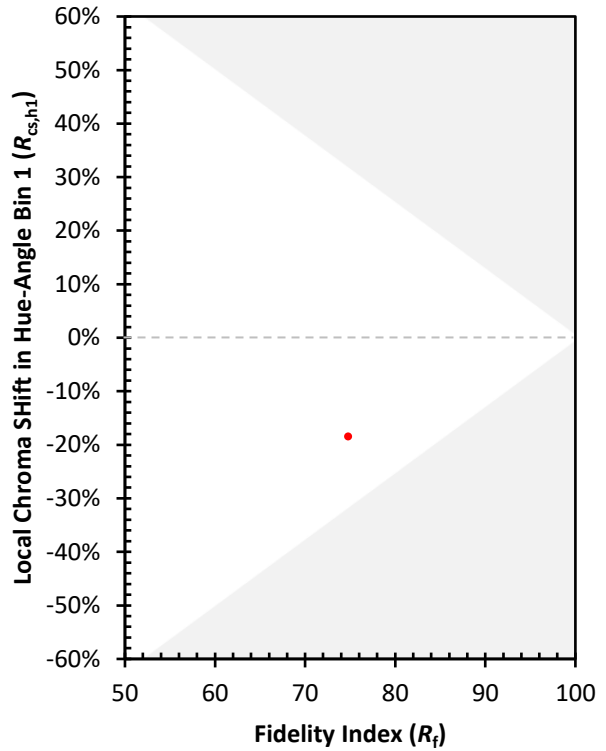
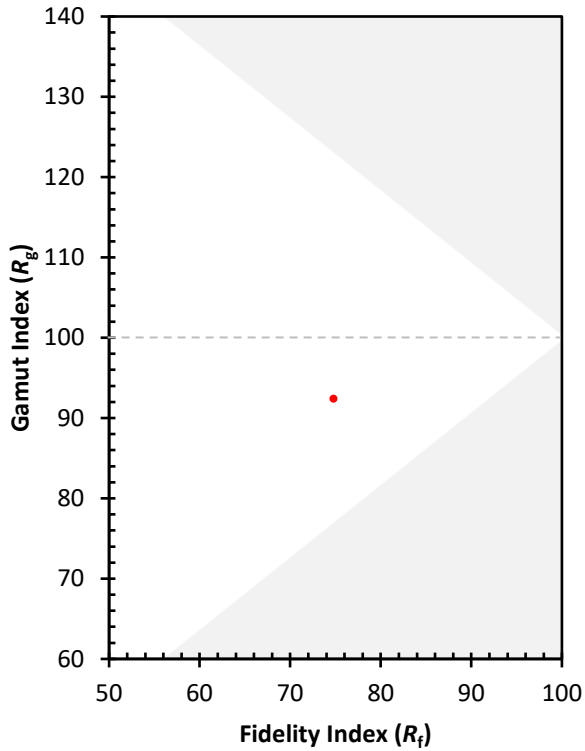
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)